

**In the Claims:**

1. (Currently Amended) A method for improving the perceived resolution of a colour matrix display with at least one pixel, comprising the steps of  
    subdividing an incident ~~colour~~ color channel signal (R) to said pixel into a first and second signal component,  
    applying a gain factor to one of said signal components, and  
    subsequently recombining said first and second signal components into an exiting, modified ~~colour~~ color channel signal.
2. (Original) A method according to claim 1, wherein said first and second signal components are a low-pass component and a high-pass component, respectively.
3. (Previously presented) A method according to claim 2, wherein said gain factor is applied to said high-pass component.
4. (Currently Amended) A method according to claim 2, wherein said low-pass component is ~~realised~~ realized by means of a low-pass filter, and said high-pass component is ~~realised~~ realized by means of a high-pass filter, said low-pass and high-pass filters being complementary.
5. (Currently Amended) A method according to claim 1, further comprising the step of:  
    providing the gain factor, so that the gain factor is inversely proportional to the contribution of the ~~colour~~ color channel to the total luminance of the ~~colour~~ color matrix display.
6. (Currently Amended) A method according to claim 1, further comprising the step of:  
    transmitting said exiting, modified ~~colour~~ color channel signal to a delay and up-  
or  
    downsampling block in order to provide the modified ~~colour~~ color channel signal with a suitable delay and scaling.

7. (Currently Amended) A ~~colour~~ color matrix display device having at least one pixel, said pixel being arranged to be controlled by means of an applied ~~colour~~ color channel signal, the display device having a control unit comprising:

- a subdivision unit, for subdividing an incident ~~colour~~ color signal into a first and second signal component,
- ~~an gain~~ a gain factor application unit, for applying a gain factor to one of said components, and
- a recombination unit, for subsequently recombining said first and second signal components into an exiting, modified ~~colour~~ color channel signal, being used to control said pixel.

8. (Currently Amended) A ~~colour~~ color matrix display device as in claim 7, being arranged to perform the method according to claim 1.

9. (New) A method according to claim 1, wherein the step of subdividing includes subdividing each of separate color channel signals for an image into a first and second signal component.

10. (New) A method according to claim 1,  
wherein the step of subdividing includes subdividing each of separate color channel signals for an image into a first and second signal component, and  
wherein applying a gain factor includes applying a gain factor to each separate color channel signal that is inversely proportional to the contribution of said separate color channel signal to the total luminance of the color matrix display.

11. (New) A method according to claim 1, wherein  
the step of subdividing includes subdividing a number N of different color channel signals, and  
the step of applying a gain factor includes applying a gain factor, for each color channel signal, that is about equal to the value of  $1/N$  multiplied by the reciprocal contribution of the channel signal to the total luminance of the color matrix display.

12. (New) A color matrix display device for displaying images, the device comprising:  
a plurality of pixels controlled by applied color channel signals; and  
a controller including

a subdivision unit to subdivide, for separate color channel signals, each color channel signal into a first and second signal component,

a gain factor application to apply, for each color channel signal, a gain factor to one of said components, the gain factor having a value that is inversely proportional to the contribution of the color channel signal to the total luminance of the color matrix display device, and

a recombination unit to recombine, for each color channel signal, said first and second signal components into a modified color channel signal that is used to control said plurality of pixels.